



Material Safety Data Sheet # 320

Hercules Chemical Company Inc.
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NFPA	HMIS	PPE	Transport Symbol						
	<table><tr><td>Health Hazard</td><td>2</td></tr><tr><td>Fire Hazard</td><td>0</td></tr><tr><td>Reactivity</td><td>0</td></tr></table>	Health Hazard	2	Fire Hazard	0	Reactivity	0	 	
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Issuing Date 26-Jul-2006

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Revision Number 1

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name Hercules Furnace Cement-Clean 'n Friendly Formulation - Heavy Body

Recommended Use Cement

Supplier Address

Hercules Chemical Company, Inc.
111 South St.
Passaic, NJ 07055
TEL: 973-778-5000

Company Emergency Phone Number 1-800-221-9330

Emergency Telephone Number Chemtrec 1-800-424-9300

2. HAZARDS IDENTIFICATION

WARNING!

Emergency Overview

Harmful if swallowed

Irritating to skin.

Severe eye irritation.

Product dust may be irritating to eyes, skin and respiratory system.

Appearance Dark Gray/Black

Physical State Paste

Odor Odorless

Potential Health Effects

Principle Routes of Exposure Ingestion, Skin contact.

Acute Toxicity

Eyes
Skin

Risk of serious damage to eyes.
Skin corrosion/irritation.

Inhalation	Not an expected route of exposure.
Ingestion	Harmful if swallowed. Can burn mouth, throat, and stomach.
Chronic Effects	Prolonged exposure may cause chronic effects. Repeated or prolonged skin contact may cause skin irritation and/or dermatitis and sensitization of susceptible persons. This product does not contain crystalline silica (quartz).
Aggravated Medical Conditions	Skin disorders.
Environmental Hazard	See Section 12 for additional Ecological information

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
Sodium silicate	1344-09-8	30-60
Kaolinite, Hydrous Aluminum Silicate	1332-58-7	10-30
Wollastonite (Ca(SiO ₃))	13983-17-0	5-10
Mica	12001-26-2	1-5
Talc	14807-96-6	1-5
Magnesium carbonate	546-93-0	1-5
Tetrasodium pyrophosphate	7722-88-5	1-5

4. FIRST AID MEASURES

Eye Contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician
Skin Contact	Wash skin with soap and water
Inhalation	Not expected .
Ingestion	Clean mouth with water and afterwards drink plenty of water
Notes to Physician	Treat symptomatically

5. FIRE-FIGHTING MEASURES

Flammable Properties	Not flammable
Flash Point	Not applicable
Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment
Explosion Data	
Sensitivity to mechanical impact	None
Sensitivity to static discharge	None

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

NFPA	Health Hazard 2	Flammability 0	Stability 0	Physical and Chemical Hazards -
HMIS	Health Hazard 2	Flammability 0	Stability 0	Personal Precautions B

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Use personal protective equipment. Avoid contact with the skin and the eyes.
Methods for Containment	Prevent further leakage or spillage if safe to do so.
Methods for Cleaning Up	Take up mechanically and collect in suitable container for disposal

7. HANDLING AND STORAGE

Handling	Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use.
Storage	Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION**Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Kaolinite, Hydrous Aluminum Silicate	TWA: 2 mg/m ³	TWA: 10 mg/m ³	
Mica	TWA: 3 mg/m ³	TWA: 3 mg/m ³	1500 mg/m ³ containing <1% quartz
Talc	TWA: 2 mg/m ³	TWA: 2 mg/m ³	1000 mg/m ³ contains no asbestos and <1% quartz
Magnesium carbonate	TWA: 10 mg/m ³	TWA: 15 mg/m ³	
Tetrasodium pyrophosphate	TWA: 5 mg/m ³	TWA: 5 mg/m ³	

NIOSH IDLH: Immediately Dangerous to Life or Health

Engineering Measures	Showers Eyewash stations Ventilation systems
Personal Protective Equipment	
Eye/face Protection	Tightly fitting safety goggles.
Skin and body protection	Wear protective gloves/clothing.
Respiratory Protection	Not applicable.
Hygiene Measures	Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing before re-use. Wash hands before breaks and at the end of workday.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Dark Gray/Black	Odor	Odorless
Physical State	Paste	pH	11-13.5
Flash Point	Not applicable	Autoignition Temperature	Not applicable
Boiling Point/Range	No data available	Melting Point/Range	No data available
Flammability Limits in Air	No data available		
Specific Gravity	1.95 +/- 0.03 (H2O = 1)	Specific Gravity	No data available
Water Solubility	Miscible with water	Solubility	No data available
VOC Content	Not applicable		

10. STABILITY AND REACTIVITY

Stability	Stable under recommended storage conditions.
Conditions to Avoid	None known.
Incompatible Products	Amines. Acids.
Hazardous Decomposition Products	None known.
Hazardous Polymerization	Hazardous polymerization does not occur

11. TOXICOLOGICAL INFORMATION**Acute Toxicity****Product Information**

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Sodium silicate	1153 mg/kg (Rat)		
Tetrasodium pyrophosphate	4 g/kg (Rat)		

Subchronic Toxicity (28 days)**Chronic Toxicity**

Chronic Toxicity	Prolonged exposure may cause chronic effects. Repeated or prolonged skin contact may cause skin irritation and/or dermatitis and sensitization of susceptible persons. This product does not contain crystalline silica (quartz).
Carcinogenicity	There are no known carcinogenic chemicals in this product.

Mutagenicity

Reproductive Toxicity	This product does not contain any known or suspected reproductive hazards.
Target Organ Effects	Eyes, Skin.
Endocrine Disruptor Information	This product does not contain any known or suspected endocrine disruptors.

12. ECOLOGICAL INFORMATION**Ecotoxicity**

Ecotoxicity effects.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Microtox	Daphnia Magna (Water Flea)
Sodium silicate				EC50 = 216 mg/L 96 h

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method Dispose of in accordance with local regulations.

Contaminated Packaging Dispose of in accordance with local regulations

US EPA Waste Number D002

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name	California Hazardous Waste Status
Talc	Ignitable; Reactive
Magnesium carbonate	Ignitable; Reactive

14. TRANSPORT INFORMATION

DOT Not regulated

TDG Not regulated

MEX Not regulated

ICAO Not regulated

IATA Not regulated

IMDG/IMO Not regulated

15. REGULATORY INFORMATION**International Inventories**

TSCA	Complies
DSL	Complies
EINECS/ELINCS	Does not Comply
ENCS	Does not Comply
CHINA	Complies
KECL	Does not Comply
PICCS	Does not Comply
AICS	Does not Comply

U.S. Federal Regulations**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

U.S. State Regulations**California Proposition 65**

This product contains the following Proposition 65 chemicals:

U.S. State Right-to-Know Regulations

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Mica	X	X	X		X
Talc	X	X	X		X
Magnesium carbonate	X	X	X		X
Chlorite-group minerals		X			
Quartz	X	X	X		X
Tetrasodium pyrophosphate	X	X	X		X

International Regulations**Mexico - Grade**

Slight risk, Grade 1

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Hazard Class

D2B Toxic materials



16. OTHER INFORMATION

Issuing Date	26-Jul-2006
Revision Date	NOT AUTHORIZED
Revision Note	No information available

Disclaimer

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of MSDS